

Epilepsy 1811

Allen M Lane

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An

Inaugural Dissertation

For

The Degree of Doctor of Medicine

Submitted to

The Examination of the

Rev John Andrews D. D. Provost

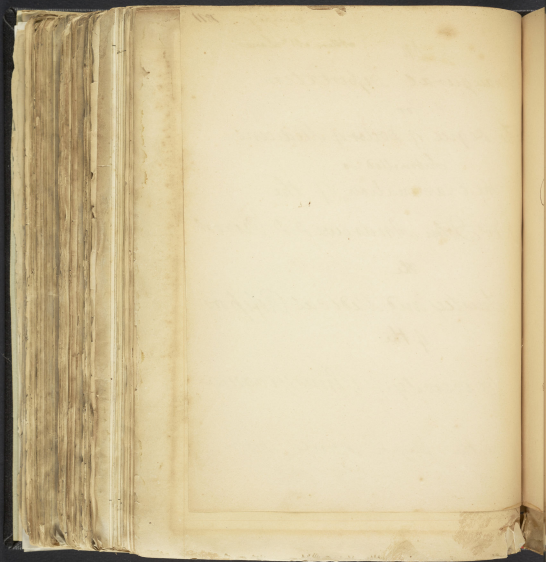
the

Trustee and Medical Professor

of the

University of Pennsylvania

on the day of April 1811—



Observations
on the
Phenomena and Cure
of
Epilepsy

By Allen deLancey Junr
of
Wilmington (Del.)

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True it is that the science of Medicine
has been much indebted to accident for many
of its improvements. But it is no less certain that
the most successful uniform practice has been
founded on a preconceived theory.

The importance which has uni-
formly been attached to theory is shown in
the reluctance with which men give up
an old and favourite opinion. As momentary
as these attachments have been considered,
they should be examined, and if found de-
fective new ones should be substituted.

Error in medicine like error in Govern-
ment should be exploded, and the antiquity
of an opinion alone should not entitle it to

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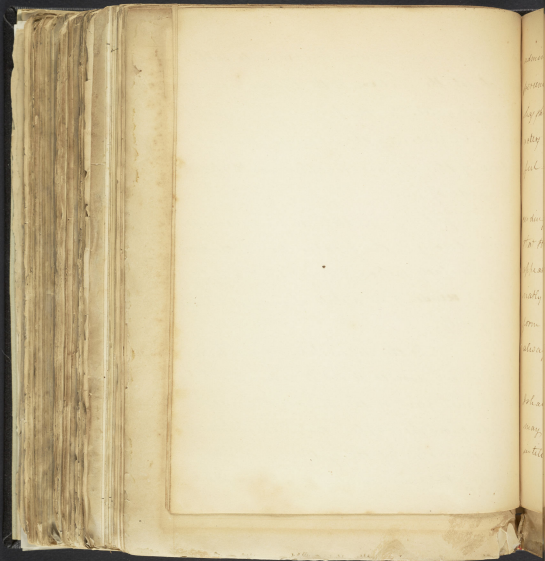
From the want of success attain-
ing the practice in Epilepsy, it has hitherto
been considered the *opprobrium Medicorum*.
If at any time a new remedy for Epilepsy, ~~has~~
is made known, which has been used with the
success it is tried by practitioners who are too
indolent to think or reason for themselves
in the first case that offers itself. The re-
sult most generally is that it falls entirely
or falls far short of the expectations which
had been raised of its efficacy, the patient
is disappointed and the Physician wondrous at
his failure. The imperfection of not the un-
certainty of the science is criminated, and
his conscience acquits his judgement of
that for which it alone should suffer.

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Such must of course continue to be the case whilst the nature of the disease remains uninvestigated. In the following inquiry I propose considering the phenomena and nature of this disease, together with its cause and mode of cure.

Epilepsy has been defined to consist in convulsions of the greater part of the muscles of voluntary motion, attended with a loss of sense and ~~ending~~ in a state of insensibility and seeming sleep.

To this definition I object, because
 1st from it we would be led to believe that there was but one form of this disease, whereas I hope to show here after that there are many.
 2^{dy} The same state of the system universally obtaining the same remedy must be uniformly

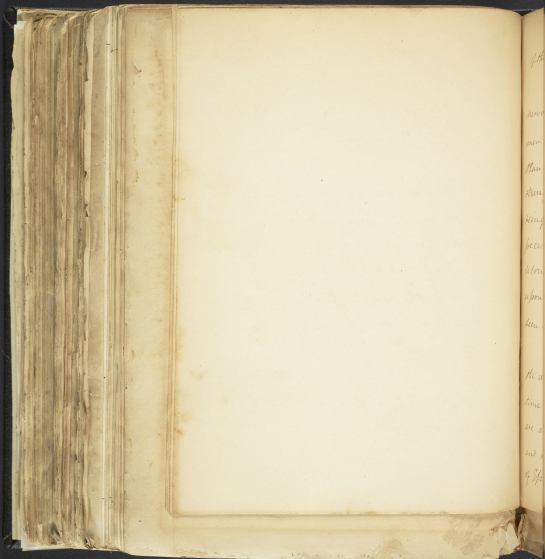


administered for the name of the disease, but ex-
 perience in this case joining hands with reason
 has shown that the giving of a very opposite char-
 acter have at different times been found success-
 ful —

This disease has been distinguished ac-
 cording to the remote cause, into different species.
 That this distinction should be correct and perfect, it
 appears necessary, that the same cause should invari-
 ably produce the same effect, which the latter
 form appearance of this disease however is not
 always the case —

In entering upon this subject I
 shall lay down a few propositions, which
 may render the following observations more
 intelligible —

1st Epilepsy is a disease of the brain, also



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of the nervous and muscular system -

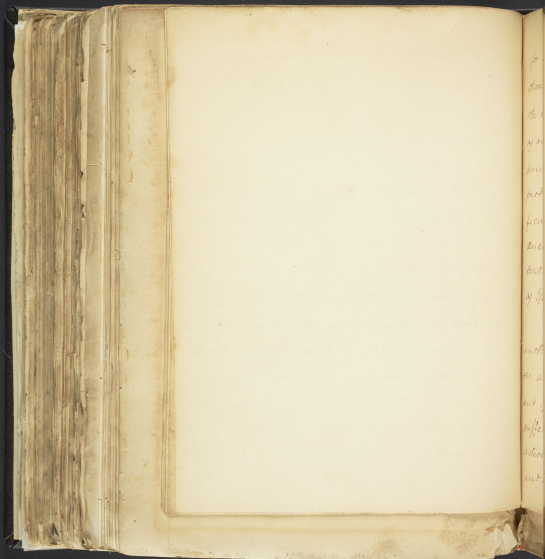
2th It most frequently affects persons of nervous and muscular predisposition; hence we; men and children are more subject to this disease than men; the latter on account of the superior strength of their arteries, and their irritability being disproportioned to their sensibility. The peculiar susceptibility of this disease which belongs to the female constitution, may depend upon that quality of matter which has happily been called mobility -

3th The system being weakest at night the disease most frequently attacks at this time. Those frequent startings in our sleep are nothing more than slight convulsions, and these I hope to show are inferior grades of Epilepsy -

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4th Epilepsy, has been considered an hereditary disease, but it properly can be so only in this respect, that it may arise from the propagation of a similar predisposition from parent to child. It is a congenial and filial disease.

5th It is always induced by predisposing debility, and this debility is seated in the brain nerves and muscles, but from the superior strength which the brain possesses, it is enabled to react when oppressed, and they resist impression which might otherwise produce extravasation or intravasion and consequent death. In this reaction, I conceive Epilepsy consists, which is nothing more than chronic convulsions. We have an ephemeral fever and a chronic fever, and why not an ephemeral and chronic convulsion? there is no more difficulty in accounting



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for the periodical return of this disease, than
 those of a common Intermittent fever; and probably
 the reason why Epilepsy does not kill sooner
 of an Intermittent is, that the latter is seated
 primarily in the bloodvessels, and more apt to
 produce disorganization. As it respects its dif-
 ficulty of cure, we may observe that before the
 discovery of the peruvian bark the Intermit-
 tent was as far beyond the power of medicine
 of Epilepsy is at this time.

In the theory of Epilepsy we have
 another proof of the unity of disease, we
 see at once the analogy between Apoplexy
 and Epilepsy viz, that the first is disease
 supplicated in the brain, and the last, morbid
 action diffused through the brain nerves
 and muscles.



the similarity of these two affections is supported not only by the doctrine of the Unity of disease, but the following considerations appear to substantiate its truth—

1st They are produced by a greater or less force of the same remote and exciting cause. This is evident from the convulsions and Apoplexies of children, arising from dentition and other causes. That children are affected with Apoplexy is rendered very probable if not certain, from the sudden manner in which they frequently die, which is generally attributed to their being over-laid, and reasoning a priori the large and disproportioned size of their heads would lead to this conclusion. We see the same cause producing in different constitutions, sudden death in



one instance and convulsions only, in an other and convulsions are chronic Epilepsies.

2^{dly} they affect the same system; but with the difference, that morbid action is more diffused in one case than in the other, and consequently the systems are more able to react, and thus prevent suffocation and death.

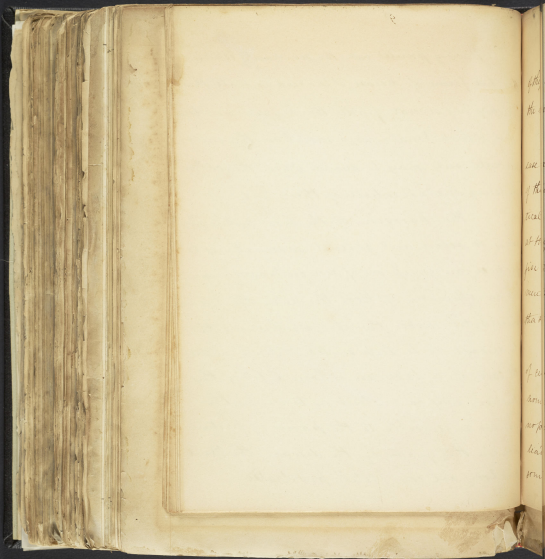
3^{dly} they are sometimes combined with each other, as appears from the phenomena exhibited in drunkenness. they also alternate with each other and Apoplexy terminates in Epilepsy, and the contrary for we have shown that Epilepsy terminates frequently in this way.

4th they afford the same appearances upon dissection, differing only in degree.

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Having pointed out the similarity between
 these two forms of disease, I proceed to state that
 Epilepsy has several grades; the highest and low-
 est of which I shall now mention, the inter-
 mediate ones may be known when they occur
 by being modifications of those two.

The paroxysm of the first and high-
 est is so severe and general as sometimes to
 produce an emission of semen, maculæ, and
 an effusion of blood through the arterial
 extremities under the skin which shew the
 disease to be deep seated. I Rush relates
 the case of a Lady in whom a fit of this
 disease was so violent, as to render the
 patient insensible to the pain of partur-
 tion. In this grade of the disease, the mind
 and body are completely prostrated.



The slightest and most simple form of this disease, consists in feeble convulsions of the muscles of the face and eyes.

The causes which produce this disease are numerous, for a particular detail of them I shall refer you to the various practical writers on this subject, only observing at this time that they may be divided into five general heads. Vizio corporale and mental, local and general and those that act sympathetically.

Before proceeding to the method of cure, I shall mention some of the *nomina* of this disease, altho they may have no particular bearing at this time, may lead to a more successful practice, at some future period.



This disease frequently continues with very little variation till about the 50th year of life, when it goes off spontaneously, or ends in Apoplexy. It attacks at different intervals from those of four hours to those of six months. It affects the memory and Imagination, and even the Moral Faculty has not escaped its invasion. It appears to increase the powers of the Intellectual Faculty, for it is an extraordinary fact, that three of the most remarkable men that have ever lived, have been subject to this disease. Allahomet and Caesar have experienced its effects, and Bonaparte that scourge of Europe and Rector to the humanity, now feels its convulsive power.

When the nature of the mind and of this disease are better understood this fact may



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lead to some important conclusion

When the disease has arisen from a blow or contusion, it sometimes has not made its appearance for some months after the accident, in one case not till 15 had elapsed. The fits are sometimes convulsed by slight impressions the association of Ideas and even the association of motions without Ideas have been known to reproduce them —

In speaking of the method of cure, shall mention that it has been cured by puberty, by pregnancy and parturition, by a change of climate and a camp life. A long journey; madness with which it sometimes alternates, delirium and prosoy have all been known to cure



The remedy which the nature of the disease appears to require, and those which experience has shown to be useful, naturally divide themselves into those which are proper for its forming state. 1st Those for the paroxysm, and 2^d Those to be employed in the interval of the fits, to prevent their return -

The forming state of this disease may be known by the following symptoms: A bitter taste in the mouth, enlargement of the pupil, tremor of the body, false visions, sudden startings, glaucousness of the eye balls, a tense or slow pulse, a peculiar smell in the breath, coolness, redness of the face, trembling of the under lip, aura Epileptica, and preternatural elevation of the faculties.



the mind— The remedy for this state are ~~the~~ ^{the} ~~human~~

1st Blood letting, if the pulse is tense or preternaturally full— 2nd An Emetic. Boerhaave has used for this purpose large doses of white Vitriol, with the happiest effects.

3rd Abstinence has prevented an expected paroxysm. 4th Purge. This remedy has been highly spoken of and much praised by Dr. Hamilton. Sulphur has been recommended as a purgative in this case— the smell of burning Sulphur, holding salt in the mouth, the application of Tobacco to the Stomach, ligatures to the wrists, when the convulsion appears in the fingers, frictions to the head also pouring cold water on the head, have all prevented a fit or lessened its force.

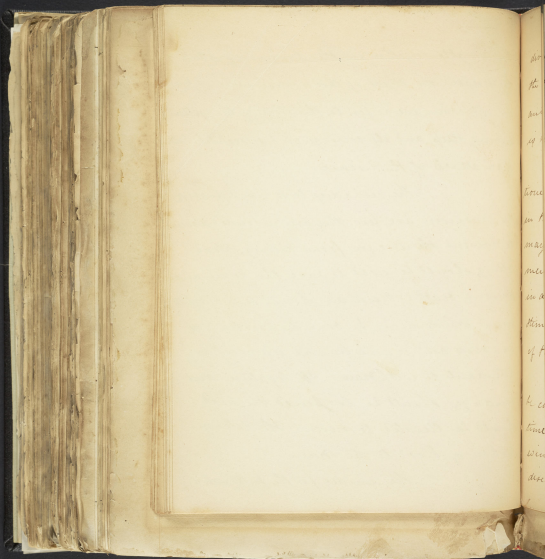
Dr. Rush advises wakefulness for two or

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three nights together in the forming stage of the disease. The object of this advice will appear evident, when we refer to the state of the system during sleep, and its consequent susceptibility of an attack of the disease.

The remedies to be used during the paroxysm are few. They are intended merely to prevent the disease from killing. Blood-letting should be used to save the brain and prevent death. Fresh air should be admitted freely, which may be done by hoisting the window and requesting all unnecessary attendants to withdraw. All ligatures and bandages should be loosened. The head should be elevated to prevent the determination of blood to the brain.

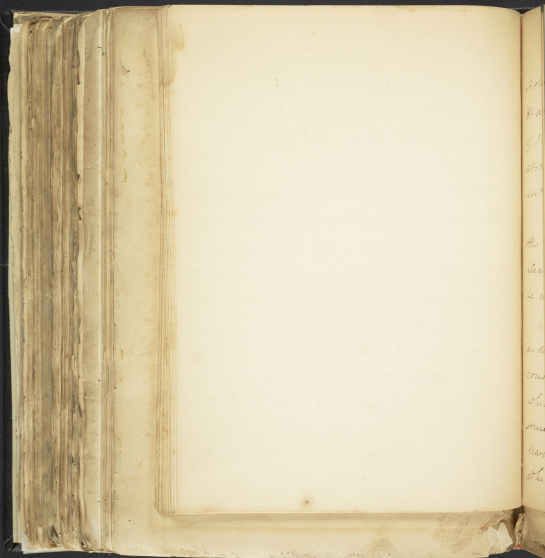
The remedies for the intervals are



divided into those which should be used when the system is above the par of excitement, and into those to be administered when it is below - of those that belong to the first class

The 1st is bloodletting. As we have mentioned that excitement in this disease is seated in the brain, nerves and muscles, this remedy may act by lessening the natural excitement of the blood vessels, and leaving them in a crasing state, or by removing the stimulus of distention destroy one cause of the increased Irritability of those parts.

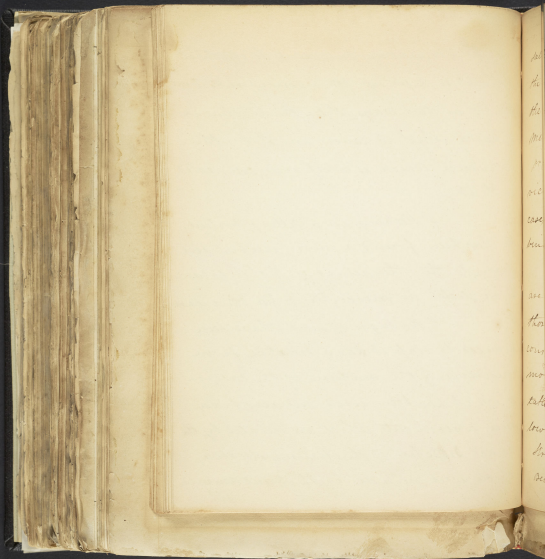
2nd A diet altogether of Milk this must be continued in for a great length of time. The efficacy of this remedy has been witnessed in other chronic inflammatory diseases —



3th Salivation. In order to be effectual
 it should be kept up for a considerable time.
 It acts in two ways, 1st by the discharge
 of saliva which it causes, and 2^d by the
 abstinence which is necessarily connected
 with it.

4th Hopping in a sitting posture,
 has been found a most useful aux-
 iliary to the other remedies. It should never
 be neglected in prescribing for this disease.

5th The sugar of Lead. has been
 induced to class it as a sedative, from
 considering the nature of the cases in
 which it has been used, and also from
 some experiments which are related by the
 learned professor of the Materia Medica,
 which were made with it and common
 salt.



salt. It was found uniformly to destroy
the irritation and spasm produced by
the application of a solution of the
Muriate of soda to the muscles of a frog.
McBee has found it principally of ser-
vice in the Epilepsy of Children. In these
cases it has generally been used in com-
bination with opium.

The second class of Remedies
are called Tonics under this head I arrange
those medicines also which are generally
considered as Stimulants and Antispas-
modics. They may be divided into Veger-
table and Mineral. Of the first the fol-
lowing are the principle.

Stramonium. Opium. Hyoscyamus. Musk
Sella serena. Camphor. Asa fetida. Valerian.



Miscetoe Peruvian Bark. Oil of Amber.

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human

To the second class belong the
preparations of Copper of Zinc of Iron.
the Nitrate of Silver Arnic. Rhyzma. &c.
has been of late much praised by some
writers, It must be given in large doses.
Yellowree thinks it peculiarly useful in
those Epilepsies arising from worms.
A generous diet has been found very
useful in certain stages of this disease.
Hard Labour has been used with great benefit.

Letany, Spine and Blisters have all
been used in this disease, of these Blisters
are probably the most efficacious. they
should be applied to the extremities of the
body. What would be the effect of covering
the whole body with a blister, and at the

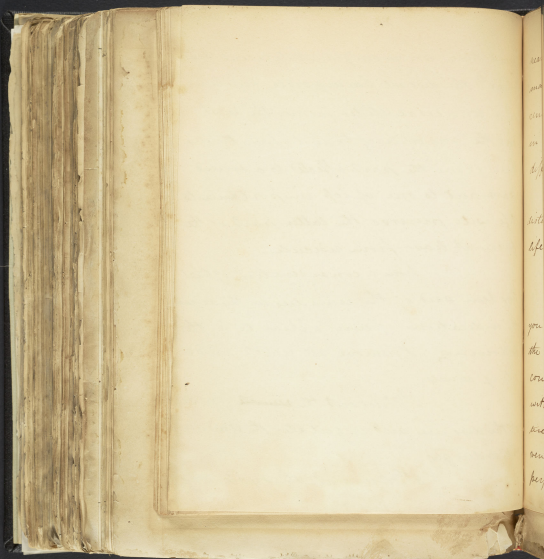
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same time producing an artificial diarrhoea? The disease having once been cured by a universal blister favours the first, and the principle of translating the disease from the part affected, to a sound part and to one of less importance to life, will preserve the latter part of the query at least from ridicule.

From a consideration of what has been said of the remedies in this disease, the indications of cure appear to be the following. 1st Remove all remote and exciting causes.

2^d Find out the remote grade of the disease and regulate the remedies accordingly.

3^d Bring all the systems of

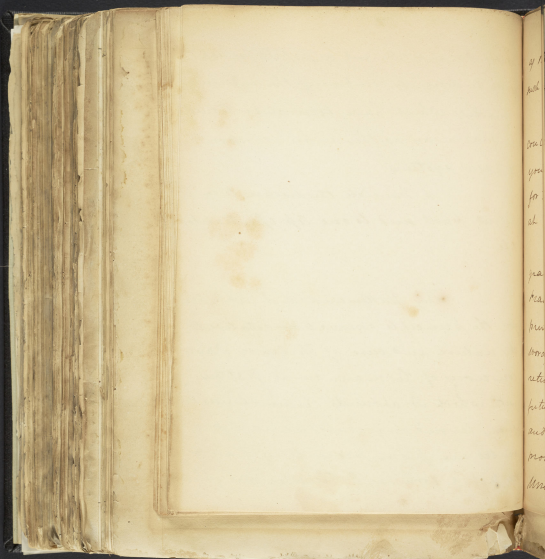


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near a par of excitement as possible, which may be done by combining the different remedies which have been mentioned in such a way as they may act upon the different systems.

2^d Translate the disease to a distant part and to one less essential to life.

Thy Gentlemen have I said before you the principle observations relative to the nature and cure of Epilepsy. I am conscious of the many imperfections with which it abounds. Circumstances entirely beyond my controul have prevented me from presenting it in a perfect a form as I otherwise might, or



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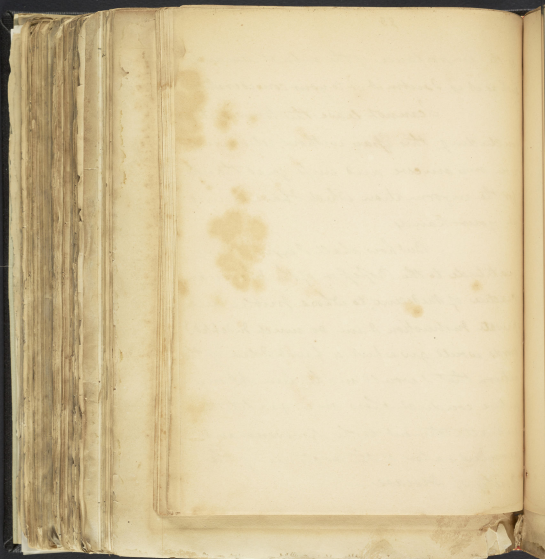
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of the importance of the subject demands, such as it is, I submit it to your consideration.

I cannot leave this University, by concluding this Essay, without returning you my sincere and unfeigned thanks, for the information which I have received at your hands. —

But how shall I express my gratitude to the Professor of the Theory and Practice of Medicine, to whose public and private instruction I am so much indebted? words would give but a faint Idea of the return that I would make him. Let my future conduct show my gratitude and attachment to the discoverer and promulgator of the doctrine of the Unity of Disease —



17.

Johnston

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